

## SEQUENCE LISTING

<110> Collins, Mary  
Chin, Elaine Y.  
Senices, Mayra  
Young, Deborah A.

<120> TREATING IMMUNOLOGICAL DISORDERS USING AGONISTS OF  
INTERLEUKIN-21/ INTERLEUKIN-21 RECEPTOR

<130> 16158-013001

<150> US 60/456,920

<151> 2003-03-21

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<170> PatentIn version 3.2

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Pro Gln Asp Val Lys Gly His Cys Glu His Ala Ala Phe Ala Cys Phe
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Gln Lys Ala Lys Leu Lys Pro Ser Asn Pro Gly Asn Asn Lys Thr Phe
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Ile Ile Asp Leu Val Ala Gln Leu Arg Arg Arg Leu Pro Ala Arg Arg
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Gly Gly Lys Lys Gln Lys His Ile Ala Lys Cys Pro Ser Cys Asp Ser  
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Val Ile Cys Ile Leu Glu Met Trp Asn Leu His Pro Ser Thr Leu Thr  
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Leu Thr Trp Gln Asp Gln Tyr Glu Glu Leu Lys Asp Glu Ala Thr Ser  
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Cys Ser Leu His Arg Ser Ala His Asn Ala Thr His Ala Thr Tyr Thr  
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Cys His Met Asp Val Phe His Phe Met Ala Asp Asp Ile Phe Ser Val  
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Leu Leu Ala Glu Ser Ile Lys Pro Ala Pro Pro Phe Asn Val Thr Val  
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Thr Phe Ser Gly Gln Tyr Asn Ile Ser Trp Arg Ser Asp Tyr Glu Asp  
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Pro Ala Phe Tyr Met Leu Lys Gly Lys Leu Gln Tyr Glu Leu Gln Tyr  
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Arg Asn Arg Gly Asp Pro Trp Ala Val Ser Pro Arg Arg Lys Leu Ile  
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Leu Lys Pro Pro Leu Ala Asp Gly Glu Asp Trp Ala Gly Gly Leu Pro  
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Cys His Met Arg Leu Ser Gln Phe Leu Ser Asp Glu Val Phe Ile Val  
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Arg Asn Leu Arg Asp Pro Tyr Ala Val Arg Pro Val Thr Lys Leu Ile  
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Ser Val Asp Ser Arg Asn Val Ser Leu Leu Pro Glu Glu Phe His Lys  
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Thr Gln Ala Gly Glu Pro Glu Ala Gly Trp Asp Pro His Met Leu Leu  
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Pro Glu Ser Phe Phe Gln Pro Leu Tyr Arg Glu His Ser Gly Asn Phe  
 275 280 285

Lys Lys Trp Val Asn Thr Pro Phe Thr Ala Ser Ser Ile Glu Leu Val  
 290 295 300

Pro Gln Ser Ser Thr Thr Thr Ser Ala Leu His Leu Ser Leu Tyr Pro  
 305 310 315 320

Ala Lys Glu Lys Lys Phe Pro Gly Leu Pro Gly Leu Glu Glu Gln Leu  
 325 330 335

Glu Cys Asp Gly Met Ser Glu Pro Gly His Trp Cys Ile Ile Pro Leu  
 340 345 350

Ala Ala Gly Gln Ala Val Ser Ala Tyr Ser Glu Glu Arg Asp Arg Pro  
 355 360 365

Tyr Gly Leu Val Ser Ile Asp Thr Val Thr Val Gly Asp Ala Glu Gly  
 370 375 380

Leu Cys Val Trp Pro Cys Ser Cys Glu Asp Asp Gly Tyr Pro Ala Met  
 385 390 395 400

Asn Leu Asp Ala Gly Arg Glu Ser Gly Pro Asn Ser Glu Asp Leu Leu

				405					410					415		
Leu	Val	Thr	Asp	Pro	Ala	Phe	Leu	Ser	Cys	Gly	Cys	Val	Ser	Gly	Ser	
			420					425					430			
Gly	Leu	Arg	Leu	Gly	Gly	Ser	Pro	Gly	Ser	Leu	Leu	Asp	Arg	Leu	Arg	
		435					440					445				
Leu	Ser	Phe	Ala	Lys	Glu	Gly	Asp	Trp	Thr	Ala	Asp	Pro	Thr	Trp	Arg	
	450					455					460					
Thr	Gly	Ser	Pro	Gly	Gly	Gly	Ser	Glu	Ser	Glu	Ala	Gly	Ser	Pro	Pro	
465					470					475					480	
Gly	Leu	Asp	Met	Asp	Thr	Phe	Asp	Ser	Gly	Phe	Ala	Gly	Ser	Asp	Cys	
				485					490					495		
Gly	Ser	Pro	Val	Glu	Thr	Asp	Glu	Gly	Pro	Pro	Arg	Ser	Tyr	Leu	Arg	
			500					505					510			
Gln	Trp	Val	Val	Arg	Thr	Pro	Pro	Pro	Val	Asp	Ser	Gly	Ala	Gln	Ser	
		515					520					525				

Ser

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<210> 9
<211> 16
<212> PRT
<213> Homo sapiens
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<400> 9

Met Pro Leu Leu Leu Leu Leu Leu Leu Leu Pro Ser Pro Leu His Pro  
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<210> 10
<211> 162
<212> PRT
<213> Homo sapiens
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<400> 10

Met Arg Ser Ser Pro Gly Asn Met Glu Arg Ile Val Ile Cys Leu Met  
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Val Ile Phe Leu Gly Thr Leu Val His Lys Ser Ser Ser Gln Gly Gln  
                   20                  25                  30

Asp Arg His Met Ile Arg Met Arg Gln Leu Ile Asp Ile Val Asp Gln  
           35                  40                  45

Leu Lys Asn Tyr Val Asn Asp Leu Val Pro Glu Phe Leu Pro Ala Pro  
       50                  55                  60

Glu Asp Val Glu Thr Asn Cys Glu Trp Ser Ala Phe Ser Cys Phe Gln  
  65                  70                  75                  80

Lys Ala Gln Leu Lys Ser Ala Asn Thr Gly Asn Asn Glu Arg Ile Ile  
                   85                  90                  95

Asn Val Ser Ile Lys Lys Leu Lys Arg Lys Pro Pro Ser Thr Asn Ala  
                   100                  105                  110

Gly Arg Arg Gln Lys His Arg Leu Thr Cys Pro Ser Cys Asp Ser Tyr  
           115                  120                  125

Glu Lys Lys Pro Pro Lys Glu Phe Leu Glu Arg Phe Lys Ser Leu Leu  
       130                  135                  140

Gln Lys Met Ile His Gln His Leu Ser Ser Arg Thr His Gly Ser Glu  
  145                  150                  155                  160

Asp Ser

<210> 11  
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 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic linker

<400> 11

Ser Gly Gly Gly Gly  
  1                  5

<210> 12  
 <211> 122  
 <212> PRT

<213> Bos taurus

<400> 12

Gln Asp Arg Leu Phe Ile Arg Leu Arg Gln Leu Ile Asp Ile Val Asp  
1 5 10 15

Gln Leu Lys Asn Tyr Val Asn Asp Leu Asp Pro Glu Phe Leu Pro Ala  
20 25 30

Pro Glu Asp Val Lys Arg His Cys Glu Arg Ser Ala Phe Ser Cys Phe  
35 40 45

Gln Lys Val Gln Leu Lys Ser Ala Asn Asn Gly Asp Asn Glu Lys Ile  
50 55 60

Ile Asn Ile Leu Thr Lys Gln Leu Lys Arg Lys Leu Pro Ala Thr Asn  
65 70 75 80

Thr Gly Arg Arg Gln Lys His Glu Val Thr Cys Pro Ser Cys Asp Ser  
85 90 95

Tyr Glu Lys Lys Pro Pro Lys Glu Tyr Leu Glu Arg Leu Lys Ser Leu  
100 105 110

Ile Gln Lys Met Ile His Gln His Leu Ser  
115 120

<210> 13

<211> 146

<212> PRT

<213> Mus musculus

<400> 13

Met Glu Arg Thr Leu Val Cys Leu Val Val Ile Phe Leu Gly Thr Val  
1 5 10 15

Ala His Lys Ser Ser Pro Gln Gly Pro Asp Arg Leu Leu Ile Arg Leu  
20 25 30

Arg His Leu Ile Asp Ile Val Glu Gln Leu Lys Ile Tyr Glu Asn Asp  
35 40 45

Leu Asp Pro Glu Leu Leu Ser Ala Pro Gln Asp Val Lys Gly His Cys  
50 55 60

Glu His Ala Ala Phe Ala Cys Phe Gln Lys Ala Lys Leu Lys Pro Ser  
 65 70 75 80

Asn Pro Gly Asn Asn Lys Thr Phe Ile Ile Asp Leu Val Ala Gln Leu  
 85 90 95

Arg Arg Arg Leu Pro Ala Arg Arg Gly Gly Lys Lys Gln Lys His Ile  
 100 105 110

Ala Lys Cys Pro Ser Cys Asp Ser Tyr Glu Lys Arg Thr Pro Lys Glu  
 115 120 125

Phe Leu Glu Arg Leu Lys Trp Leu Leu Gln Lys Met Ile His Gln His  
 130 135 140

Leu Ser  
 145